

A. CLASSIFICATION OF SUBJECT MATTER
 IPC 7 H05B41/295 H05B41/298

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H05B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2002/140376 A1 (KAMATA MASAHICO ET AL) 3 October 2002 (2002-10-03)	1,6,8, 10,15, 18-20
Y	paragraph '0016! - paragraph '0022!; figure 7 paragraph '0034! paragraph '0051! paragraph '0105!; claims 1-3 -----	7,9,17
X	US 5 854 538 A (KRUMMEL PETER) 29 December 1998 (1998-12-29)	1,10,18
Y	column 5, line 30 - line 44; figure 5 -----	7
Y	US 2003/076055 A1 (HOOIJER CHRISTOFHER DANIEL CHA ET AL) 24 April 2003 (2003-04-24)	9,17
A	last sentence , paragraph 19; figure 1 -----	1-8, 10-16, 18-20

☐ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *&* document member of the same patent family

Date of the actual completion of the international search

8 October 2004

Date of mailing of the international search report

20/10/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
 NL - 2280 HV Rijswijk
 Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
 Fax: (+31-70) 340-3016

Authorized officer

Henderson, R

Patent document cited in search report		Publication date		Patent family member(s)		Publication date
US 2002140376	A1	03-10-2002	JP	2002359093 A		13-12-2002
			CN	1378414 A		06-11-2002
<hr/>						
US 5854538	A	29-12-1998	DE	19520999 A1		12-12-1996
			AT	205042 T		15-09-2001
			CA	2178443 A1		09-12-1996
			DE	59607566 D1		04-10-2001
			EP	0748146 A1		11-12-1996
			HK	1005304 A1		15-03-2002
			SG	64387 A1		27-04-1999
			TW	415158 B		11-12-2000
<hr/>						
US 2003076055	A1	24-04-2003	EP	1442632 A1		04-08-2004
			WO	03034794 A1		24-04-2003
<hr/>						